## 09/497,719

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New herbicide tolerant plants, plant tissues useful for producing or identifying herbicide resistant plant lines or protox mutants, or screening novel herbicides or seeds, comprise altered protoporphyrinogen oxidase (protox) activity	Herbicide-tolerant protoporphyrinogen oxidase ("protox") genes	Herbicide-tolerant protox genes produced by DNA shuffling	Herbicide-tolerant protox genes produced by DNA shuffling	Title
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Novel shuffled DNA molecule obtained by shuffling template DNA molecule having protox enzyme activity, encodes protox enzyme having enhanced tolerance to herbicide that inhibits protox activity encoded by template DNA	Selecting transformed plants, or plant tissue or cells resistant to a protoporphyrinogen oxidase (protox) inhibitor from nontransformed plants, by selecting plants, tissues or cells that survive in a medium with a protox inhibitor	An isolated maize DNA molecule encoding a protoporphyrinogen oxidase (protox) which are useful for rationally designing new inhibitory herbicides and for producing herbicide-tolerant transgenic plants and seeds	Title
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